Att'y Ref. No. 003-122

U.S. App. No.: 10/808,487

1. (Currently Amended) A method for the operation of a power plant with a closed or quasi-closed cycle, the power plant comprising at least one compressor unit or a pump, at least one combustion chamber, <u>and</u> at least one turbine, and at least one heat sink, the method comprising:

connecting means for coarse fractionation of air upstream of an air fractionation installation to supply oxygen-enriched air to the air fractionation installation;

obtaining at least one oxygen flow with the air fractionation installation;

reacting a fuel mass flow with said at least one oxygen flow in the at least one combustion chamber to form a hot gas;

expanding said hot gas in a work-performing manner in the at least one turbine to produce excess combustion products; and

removing the excess combustion products from the cycle.

- 2. (Previously Presented) The method for the operation of a power plant as claimed in claim 1, wherein the air fractionation installation comprises a cryogenic air fractionation installation.
- 3. (Previously Presented) The method for the operation of a power plant as claimed in claim 1, wherein the means for the coarse fractionation of air comprises an at least single-stage membrane device.
- 4. (Previously Presented) The method for the operation of a power plant as claimed in claim 1, wherein the means for coarse fractionation of air comprises a vacuum swing adsorption device.
- 5. (Previously Presented) The method for the operation of a power plant as claimed in claim 1, further comprising:

increasing the oxygen content of air supplied to the air fractionation installation to at least

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40 per cent by volume with the means for coarse fractionation of air.

- 6. (Previously Presented) The method for the operation of a power plant as claimed in claim 3, wherein a permeated air component for said at least single-stage membrane device is oxygen.
- 7. (Previously Presented) The method for the operation of a power plant as claimed in claim 3, wherein a permeated air component for said at least single-stage membrane device is nitrogen.
- 8. (Previously Presented) The method for the operation of a power plant as claimed in claim 3, wherein the power plant includes a waste heat utilizer of the gas turbine, and further comprising:

providing heat for said at least single-stage membrane device from the waste heat utilizer.

9. (Previously Presented) The method for the operation of a power plant as claimed in claim 3, further comprising:

providing refrigeration required for said at least single-stage membrane device from the air fractionation installation.

10. (Previously Presented) The method for the operation of a power plant as claimed in claim 1, wherein said excess combustion products comprise CO₂, H₂O, or both.